

IN THE CLAIMS

Please amend Claims 1, 3, 5, 6, 7, 9, 20 and 24 in accordance with the following rewritten claims in clean form. Applicant includes herewith an Attachment for Claim Amendments showing a marked up version of each amended claim.

1. (Three Times Amended) An air conditioning apparatus for a vehicle having a passenger compartment, said air conditioning apparatus comprising:
a case forming an air passage, said case defining a bottom portion; and
a cooling heat exchanger for cooling air passing therethrough, disposed in said case, wherein:

C' said cooling heat exchanger has a plurality tubes extending in a longitudinal direction, through which a fluid flows;

S said cooling heat exchanger is disposed in said case to be inclined from a horizontal direction by a predetermined angle to define an upper end and a lower end so that air is introduced into said cooling heat exchanger from below and flows upwardly, said lower end of said cooling heat exchanger being spaced from said bottom portion of said case to form a lower space under said cooling heat exchanger;

said cooling heat exchanger is inclined in the same direction as the longitudinal direction of said tubes so that one end of said tubes in the longitudinal direction becomes lower than the other end of said tubes in the longitudinal direction, condensation occurring on said tubes flowing from said upper end of said heat exchanger to said lower end of said heat exchanger, said condensation falling from said tubes to said bottom portion due to gravity; and

Amended
said cooling heat exchanger is disposed so that a flow direction of air flowing into said lower space under said cooling heat exchanger is generally parallel to said cooling heat exchanger and approximately perpendicular to the longitudinal direction of said tubes.

3. (Amended) The air conditioning apparatus according to Claim 1, wherein:

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said cooling heat exchanger includes a tank portion for distributing fluid into said tubes and for joining fluid from said tubes, said tank portion being provided at least on one end side of each tube in the longitudinal direction;

said tank portion includes a joint portion having an inlet for introducing fluid into said cooling heat exchanger and an outlet for discharging fluid from said cooling heat exchanger.

5. (Amended) The air conditioning apparatus according to Claim 1, wherein:

C3
said bottom portion is inclined to correspond to said cooling heat exchanger; and

said case has a drain hole for draining condensed water generated in said cooling heat exchanger, at a lowest position of said bottom portion.

6. (Amended) The air conditioning apparatus according to Claim 5, wherein:

said case has an air inlet through which air blown by said blower unit flows into the lower side of said cooling heat exchanger in said flow direction; and

said air inlet is formed between said cooling heat exchanger and said bottom portion along each inclination of said cooling heat exchanger and said bottom portion.

7. (Amended) The air conditioning apparatus according to Claim 1, further comprising:

a heating heat exchanger for heating air from said cooling heat exchanger, said heating heat exchanger being disposed on an upper side of said cooling heat exchanger so that a bypass passage through which air bypasses said heating heat exchanger is formed; and

an air mixing door, disposed between said cooling heat exchanger and said heating heat exchanger, for adjusting a ratio between an amount of air passing through said heating heat exchanger and an amount of air passing through said bypass passage.

9. (Amended) The air conditioning apparatus according to Claim 1, further comprising:

a blower unit for blowing air into said case, wherein:

said case is adapted to be disposed at a center portion on a front side of the passenger compartment; and

modified
said blower unit is adapted to be shifted from said case in the vehicle width direction.

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20. (Amended) The air conditioning apparatus according to any one of Claim 19, wherein said inside/outside air switching unit is adapted to be disposed at a vehicle front side of said blower in a vehicle front-rear direction.

C4
24. (Amended) The air conditioning apparatus according to Claim 19 wherein the rotation axis of said blower is adapted to be in the vehicle front-rear direction.

Please cancel Claims 2, 4, 8, 10-17, 22 and 23 without prejudice or disclaimer of the subject matter contained therein.

Please add the following new claims.

29. (New) An air conditioning apparatus for a vehicle having a passenger compartment, said air conditioning apparatus comprising:

C7
a case forming an air passage, said case defining a bottom portion; and
a cooling heat exchanger for cooling air passing therethrough, disposed in said case, wherein:

said cooling heat exchanger has a plurality tubes extending in a longitudinal direction, through which a fluid flows;

said cooling heat exchanger is disposed in said case to be inclined from a horizontal direction by a predetermined angle to define an upper end and a lower end so that air is introduced into said cooling heat exchanger from below and flows upwardly, said lower end of said cooling heat exchanger being spaced from said bottom portion of said case to form a lower space under said cooling heat exchanger;

said cooling heat exchanger is inclined in the same direction as the longitudinal direction of said tubes so that one end of said tubes in the longitudinal direction becomes lower than the other end of said tubes in the longitudinal direction; and

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said cooling heat exchanger is disposed so that a flow direction of air flowing into said lower space under said cooling heat exchanger is generally parallel to said cooling heat exchanger and approximately perpendicular to the longitudinal direction of said tubes, said air flowing into said lower space creating a high pressure area within said lower space.

30. (New) An air conditioning apparatus for a vehicle having a passenger compartment, said air conditioning apparatus comprising:

a case forming an air passage, said case defining a bottom portion; and

a cooling heat exchanger for cooling air passing therethrough, disposed in said case, wherein:

said cooling heat exchanger has a plurality tubes extending in a longitudinal direction, through which a fluid flows;

said cooling heat exchanger is disposed in said case to be inclined from a horizontal direction by a predetermined angle to define an upper end and a lower end so that air is introduced into said cooling heat exchanger from below and flows upwardly, said lower end of said cooling heat exchanger being spaced from said bottom portion of said case to form a lower space under said cooling heat exchanger;

said cooling heat exchanger is inclined in the same direction as the longitudinal direction of said tubes so that one end of said tubes in the longitudinal direction becomes lower than the other end of said tubes in the longitudinal direction, condensation occurring on said tubes flowing from said upper end of said heat exchanger to said lower end of said heat exchanger, said condensation falling from said tubes to said bottom portion due to gravity, and

said cooling heat exchanger is disposed so that a flow direction of air flowing into said lower space under said cooling heat exchanger is generally parallel to said cooling heat exchanger and approximately perpendicular to the longitudinal direction of said tubes, said air flowing into said lower space creating a high pressure area within said lower space, said high pressure area shielding said condensation from said air flowing into said lower space.